

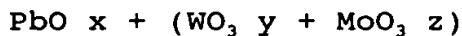
DIELECTRIC CERAMIC MATERIAL AND METHOD FOR
PRODUCING THE SAME

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ABSTRACT OF THE DISCLOSURE

10 An object of the present invention is to make it possible to sinter a PZT dielectric ceramic material at a desired low temperature and to prevent deterioration of the performance of the base material.

15 According to the present invention, an auxiliary oxide is used that is made by adding the oxide of at least one of tungsten and molybdenum to lead oxide in the following proportions.



where $x + y + z = 1$, $0.005 < y + z < 0.4$ and $y, z \geq 0$.
0.5 mol % to 20 mol % of this auxiliary oxide is added to
20 a mixture of a stock material of dielectric ceramic
material or calcination thereof that has a composition of
 ABO_3 type dielectric ceramic material where 0.9 molar
ratio or more lead is included in site A assuming the
proportion of site B is 1, and the material is mixed,
25 formed and sintered. The content of tungsten and
molybdenum combined is less than 0.098 mole in proportion
to 1 mole of lead and the density of the dielectric
ceramic material after sintering is 7.5 g/cm^3 or larger.
The auxiliary oxide is dispersed in the calcined powder
30 to form a liquid phase at a desired temperature, thereby
to accelerate the sintering, thus making it possible to
sinter at a lower temperature.